

Jet Propulsion Laboratory
California Institute of Technology



4800 Oak Grove Drive
Pasadena, CA 91109-8099

(818) 354-4321

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TO: Distribution

FROM: David Morris

SUBJECT: Minutes for the Joint Users Resource Allocation Planning Committee Meeting held March 20, 2008 JPL Building 126-Room 200 1PM.

NEXT JURAP MEETING:
Thursday, April 17, 2008
JPL Bldg 126, Room 200, Time 1PM

Attendees:

A. Andujo	L. Fairley	J. Hall	K. Parker	P. Tay
S. Chhan	J. Frautnick	E. M-Chapman	E. Pereira	K. Yetter
D. Dillard	A. Kniepkamp	D. Morris	D. Seal	K. Zamora

The Joint Users Resource Allocation Planning Committee meets monthly to review the status of Flight Projects, the requirements of other resource users, and to identify future requirements and outstanding conflicts. The previous JURAP meeting was held on January 18, 2008 at the Jet Propulsion Laboratory.

Introductory Remarks – D. Morris

Welcomed the attendees to the JURAP meeting. Remarked on the status of the downtime items, Dragon servers, secure socket layer exchange will be updated by J. Baldwin, and each Windows user needs to update their certificates as well. POLAR and ULYSSES mission are still flying. Also briefly discussed DSN downtimes for: DSS-15 still down for AZ/Track and other maintenance activities – on schedule; DSS-54 still down for Az/Track and Ka-band D/L installation – going well and on schedule. Madrid power conversion to commercial power planned to begin in late March and April.

Also discussed the Action Items as follows:

Seven action items from last February RAR (DSN INCF):

- An action item 1 is pending for the DSS-45 and DSS-65 S-band U/L operational date. Tentatively, June 1 is noted and until then no S-band uplink support
- Action item 2 is closed, this was to delete 2nd day maintenance in week 05 for DSS-63 and was refused by office 925.
- Action item 3 is closed, this was to delete 2nd day maintenance in week – DSS-14.
- Action item 4 is still open for MRO increase MSPA w/o meeting U/L requirements – will propose to work this in mid-range.
- Action item 5 is in work, this was for the MSL TCM-1 conflict with Messenger Mercury Flyby-3 on 70M – compromise will be proposed.
- Action item 6 is closed; this was for Kepler use of Narrabri during MSL Approach phase. Kepler has noted that Narrabri standalone does not meet their x-band uplink/downlink requirement.
- Action item 7 is open; this is for MSL Approach and STF contention of their 70M requirements.

Other brief discussions are as follows:

- Conflict Resolution – week 21 delivered into SPS with less than two minor equipment conflicts, and this will be negotiated and resolved.
- There maybe a launch slip of LRO / GOES-O – unofficial note
- Chandrayaan launch late June is uncertain and uncertain if the mission will launch by the end of this year, but requires minimal DSN support - unofficial note.
- GOES-O launch date changed to 11-02-08 with EOPM five years after launch.

Resource Analysis Team

Mid-Range Status – L. Fairley

Week 12-21 have been released to DSN Scheduling

Week 31-32 were released to the Remote Users

Week 22-30 of 2008 have remaining facility and equipment conflicts

Mid-Range scheduling process has scheduled 20 weeks ahead of real-time and there are currently 10 weeks of conflict-free schedules. Conflict resolution is required for the following

On-going special studies/activities:

- Downtime Planning – ongoing
- Ulysses Extended Mission Special Study was completed

Ulysses Special study determines the ability of the DSN to support Ulysses during the extended mission phase from April 2008 through September 2008. The study shows the DSN can provide greater than 95% of the requested hours of track time. There are no missions that place a significant threat to Ulysses during its extended mission ending in September 2008

- Voyager 1 and Voyager 2 Supportability Study was completed

Special study illustrates the supportability for the Voyager 1 and Voyager 2 mission extended requirements to the current mission requirements. Forecast results for the Voyager 1 and Voyager 2 on both subnets (70-meter and 34-meter) combined indicate the DSN can support the extended requirements through 2013, slightly reducing supportability for others as contentions for DSN resources increase.

Antenna Downtime Status and Forecast:

The following downtimes are being studied for 2008-2010:

- DSS-14 Grouting for week 25 in 2008 has been removed from the chart
Have requested from the complex to combine the downtime with week 31 and schedule 5-6 days
- DSS-55 downtime for Paint Repair beginning in June 2008 has been moved to September.
- DSS-34 downtime for DSS-34 Azimuth Track Repair in June Of 2008 for week 25 – 28.
Due to Cassini critical support, the downtime will start 1 day later.
- DSS-65 downtime for Life Extension Elevation for October, November of 2009 has been moved to weeks 31-41 in 2010.
- DSS-25 downtime for Ka U/L install for April 2010 re-scheduled for August, weeks 31-34.
- DSS-54 downtime for ACQ Aid Installation is scheduled for weeks 42 and 43 of 2008.
- CDSCC 26m antenna, DSS-46 will close as of August 1, 2009.
- DSS-43 downtime for Life Extension and Depot Level Maintenance starting October 3, 2008 has been moved to start January 5, 2009 and proposed to end April 12, 2009.

- DSS-63 downtime for Life Extension has been shortened to May 4, through August 2, 2009. The start was delayed and time will be adding 2 weeks longer.
- Because of the reduction of downtime for DSS-43 & DSS-63 in 2008 & 2009, it is requested to recover that time in 2010, local spring, summer or fall after DSS-14 RTS.
- DSS-15 downtime for Pentle Bearing has been scheduled for May 3, through June 27, 2010.
- DSS-34 downtime for Azimuth Track Replacement has been proposed for 2010, local summer.
- DSS-24 downtime for painting has been proposed for April – May of 2009. A study is being performed.

Downtime request for 2008

The following proposals for 14 hour complex downtimes are requested by GDSCC.

- Corrective maintenance “Apollo Tie-Line CB 22 Electrical Maintenance” in April. This is in the schedule for week 16 DOY 108/0755-2155 has been negotiated in the Mid-Range negotiation meetings.
- Corrective maintenance “G86/G81 Transfer Switch Electrical Maintenance” in May. This was in the schedule for week 22 DOY 147/0830-2230. This downtime will be scheduled no earlier than week 36 and negotiated in the Mid-Range negotiation meetings.
- Preventative maintenance “G91 2400V Switchgear Electrical Maintenance” in June. This is in the schedule for no earlier than week 38 and will be negotiated in the Mid-Range negotiation meetings.
- Preventative maintenance “Echo Tie-Line Electrical Maintenance” in September. This is in the schedule for no earlier than week 40 and will be negotiated in the Mid-Range negotiation meetings.
- Preventative maintenance “Apollo Tie-Line Electrical Maintenance” in October. This is in the schedule for no earlier than week 43 and will be negotiated in the Mid-Range negotiation meetings.
- Preventative maintenance “SPC-10 Electrical Maintenance” in November. This is in the schedule for no earlier than week 45 and will be negotiated in the Mid-Range negotiation meetings.

The following proposals for antenna downtimes are requested.

MDSCC Annual Antenna Inspections including Annual Servo Testing at DSS-63, -65, -54 and -

55 as follows:

- Servo Testing for DSS-55 is scheduled for DOY 192/0600-1400 week 28
- Servo Testing for DSS-63 is scheduled for DOY 193/0600-1400 week 28
- Servo Testing for DSS-54 is scheduled for DOY 196/0600-1400 week 29
- Servo Testing for DSS-65 is scheduled for DOY 199/0600-1400 week 29
- Servo Testing for DSS-63 is scheduled for DOY 203/0600-1400 week 20 (will be deleted if week 28 is negotiated)
- Antenna Inspection for DSS-63 is scheduled for DOY 154/0600-1400 week 23
- Antenna Inspection for DSS-55 is scheduled for DOY 161/0600-1400 week 24
- Antenna Inspection for DSS-54 is scheduled for DOY 162/0600-1400 week 24
- Antenna Inspection for DSS-65 is scheduled for DOY 163/0600-1400 week 24
- HEF Transmitter Manifold Installation at DSS-15, -45 and -65 between July 2008 and June 2009 not to be scheduled concurrently with DSS-15 being scheduled first.
- Madrid requesting downtime during daylight time for installation of ladder assembly leading to subreflector to be completed before the Phoenix EDL – this will have to be reviewed to get approved.

Closing statements: D. Morris